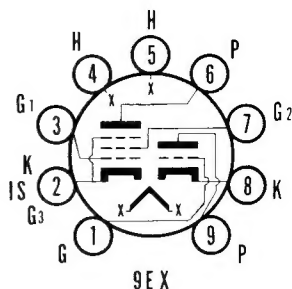




TYPE 50FY8



MECHANICAL DATA

Bulb.....	T-6 1/2
Base.....	E9-1, Small Button 9-Pin
Outline.....	6-4
Basing.....	9E X
Cathode.....	Coated Unipotential
Mounting Position.....	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage.....	50 Volts
Heater Current.....	150 Ma
Heater-Cathode Voltage (Design Maximum Values)	
Heater Negative with Respect to Cathode	
Total D C and Peak.....	200 Volts Max.
Heater Positive with Respect to Cathode	
D C.....	100 Volts Max.
Total D C and Peak.....	200 Volts Max.

RATINGS (Design Maximum Values)

	Triode Section	Pentode Section
Plate Voltage.....	150	150 Volts Max.
Grid No. 2 Voltage.....		150 Volts Max.
Plate Dissipation.....	1.0	10 Watts Max.
Grid No. 2 Dissipation.....		3 Watts Max.
Grid No. 1 Circuit Resistance		
Fixed Bias.....	1.0	0.5 Megohm Max.
Cathode Bias.....	3.0	1.0 Megohm Max.

CHARACTERISTICS AND TYPICAL OPERATION

Class A₁ Amplifier

	Triode Section	Pentode Section
Plate Voltage.....	125	125 Volts
Grid No. 2 Voltage.....	...	125 Volts
Grid No. 1 Voltage.....	-1.5	... Volts
Cathode Bias Resistor.....		120 Ohms
Zero Signal Plate Current.....	2.5	70 Ma
Max. Signal Plate Current.....		66 Ma
Zero Signal Grid No. 2 Current.....		10 Ma
Max. Signal Grid No. 2 Current.....		19 Ma
Transconductance.....	2700	7500 μ mhos
Amplification Factor.....	46	...
Plate Resistance.....	17,000	5000 Ohms
Load Resistance.....		2000 Ohms
Power Output.....		3 Watts
Total Harmonic Distortion.....		10 Percent

APPLICATION

Type 50FY8 contains a high mu triode and Beam Power amplifier in a T-6 1/2 envelope. The Beam Pentode is capable of furnishing 3 watts of output at a B+ voltage of 125 volts.